## CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 200206013 Cheshire Montoring Study Suspended Particles

- Chain of Custody
- Transmittal Report w/signatures of the following:
  - Analyst(s)
  - Environmental Data Coordinator

Prepared by: Sylwa Irifun 1-3-02
Environmental Data Coordinator

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



## REGION 5 CENTRAL REGIONAL LABORATORY

## 536 SOUTH CLARK STREET

## CHICAGO, ILLINOIS 60605

Date:

JUL 0 3 2002

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY** 

From:

Edgar Santiago, Chemist  $\mathcal{E}$ -  $\S$ -

Region 5 Central Regional Laboratory

To:

Attached are the results for: **CHESHIRE MONITORING STUDY** 

CRL work order number: 0206013

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH52D01, 2002AH52S01, 2002AH52S02,

and 2002AH52S03.

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### ##################################
Data Management Coordinator and Date Received
Date Transmitted:
Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.
Please sign and date this form below and return it with any comments to:
Sylvia Griffin Data Management Coordinator Region 5 Central Regional Laboratory ML-10C
Received by and Date

Comments:

Work Order Number	r: <u>0206013</u>	Paramete	er: <u>S</u>	Suspended Particles_
Facility Name:	CHESHIRE MONITORI	NG STUDY		
Study Name:	CHESHIRE MONITORI	NG STUDY		
Date of Narrative:	06/27/2002	Analyst:	<u>ES</u>	wates &
		Signature:		6-7

## **ANALYSIS CASE NARRATIVE**

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on June 19, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID
Q8609570	2002AH52D01
Q8609571	2002AH52S01
Q8609562	2002AH52S02
Q8609561	2002AH52S03

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 06/26/2002 and was completed on 06/27/2002. All exposed filters were in good conditions. No sampler sn number was provided for filters Q8609562 and Q8609561 (CRL sample I.D number 2002AH52S02 and 2002AH52S03).

### **QUALITY CONTROL (QC):**

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

#### **SAMPLE RESULTS:**

All the sample results are acceptable for use.

### **ELECTRONIC DATA:**

No electronic data.



## **Environmental Protection Agency Region 5**

## **Central Regional Laboratory**

536 South Clark Street, Chicago, IL 60605 Phone:(312)353-8370 Fax:(312)886-2591

#### WORK ORDER

Printed: 7/3/02 8:18:04AM

0206013

US EPA Region 5 Central Regional Laboratory

Client: Air Division, US EPA Region 5

Project: Gavin, Cheshire. Ohio

Project Manager:

Marilyn Jupp

Project Number:

[none]

Report To:

Air Division, US EPA Region 5

Kathy Triantafillou

77 West Jackson Boulevard

Chicago, IL 60605

Phone: (312) 353-4775 Fax: (312) 353-2001

Date Due:

Jul-10-02 15:00 (20 day TAT)

Received By:

William Sargent

Date Received:

Jun-19-02 11:41

Logged In By:

William Sargent

Date Logged In:

Jun-21-02 14:36

Samples Received at:

°C No Starts 8-3-01 Ends 8-3-02

All containers intact: Sample labels/COC agree:

No

Samples Preserved Properly: Custody Seals Present:

No No

Analysis	Due	TAT	Expires	Comments
0206013-01 2002AH52D01	[Air Filter] Sampled .	Jun-07-02	00:00 Central	GHS#3013,PSTG AUG=16.15
PM10	Jul-10-02 12:00	20	Jul-07-02 00:00	
0206013-02 2002AH52S01	[Air Filter] Sampled J	un-07-02	00:00 Central	GHS#3012, PSTG AUG=16.25
PM1●	Jul-10-02 12:00	20	Jul-07-02 00:00	
0206013-03 2002AH52S02	[Air Filter] Sampled J	un-07-02 (	00:00 Central	RVHS, PSTG AUG=16.2
PM10	Jul-10-02 12:00	20	Jul-07-02 00:00	
0206013-04 2002AH52S03	[Air Filter] Sampled J	fun-07-02	00:00 Central	ADDAVILLE,PSTG AUG=16.05
PM10	Jul-10-02 12:00	20	Jul-07-02 00:00	*/
				51

# CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
В	This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. ( <u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>Method</u> Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS TeNtatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or <i>Q</i> uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are <u>Rejected</u> and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag</u> .
U	This flag in used when the analyte was analyzed for but <u>Undetected</u> in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

## **ENVIRONMENTAL PROTECTION AGENCY** REGION V

## CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 06/07/2002 LAB ARRIVAL DATE: 06/19/2002 DUE DATE: 07/10/2002 DU NUMBER: 90101A WORK ORDER NUMBER: 0206013 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)		
1	2002AH52D01	GUIDING HANDS SCHOOL	0.0444		
2	2002AH52S01	GUIDING HANDS SCHOOL	0.0470		
3	2002AH52S02	RVHS	0.0486		
4	2002AH52S03	ADDAVILLE	0.0593	310-001-2-010	
DATE	OF ANALYSIS		06/26- 27/2002	7888	:8
A	NALYST		8-3		

	en en		9	
	Grand A	~ O A C		
Reviewed by:	f fingles	Date: 1/3 /00		
Attitioned by.		Bate:		

Page 1 of 1

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and	Inorganic Group	Page of

## ATTACHMENT II

Batch Number: 02060/3 Facility: CHESHILE MONI Parameter: PM 10 CRL.SOP: A16047	TORING	
Parameter:	YES	NO
Raw Data Package Complete?		
Results Reported Correctly?		
Special Requests Done?	NA	
Calculations Checked?		
Calibration Not Exceeded?	NA	
Manual Peak Integration performed? Circle one IC or GC and Check	N/A	
Field QC Checked?	N/A	
Quality Control:		CONTRACTOR TO SECURITION
Holding Times Met?	NA	
Preservation Checked?	NA	(4)
Proper Digestion Verified?	N/A	
Initial Instrument Performance Checks Verified?		
Calibration Verification Checked?	٨١٨	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	N/A	
Matrix QC Checked?	NIA	***************************************
Digestion Blanks Checked?	NA	
Spiked Blank Checked?	NA	
LCS (if applicable) Checked?	4/4	
QCS (if applicable) Checked?	N/A	
Final Check		*:
Technical Review Done?		
Narrative Complete?		
Analyst: C.S Peer Reviewer: Frank		-
Date: $6/27/02$ Date: $7/3/02$		
Comments Attached? (V/N)		

Work Order Number: 0206013 Parameter: Suspended Particles
Facility Name: CHESHIRE MONITORING STUDY
Study Name: CHESHIRE MONITORING STUDY
Date of Narrative: 06/27/2002 Analyst: ES
Signature:

## **ANALYSIS CASE NARRATIVE**

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on June 19, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID
Q8609570	2002AH52D01
Q8609571	2002AH52S01
Q8609562	2002AH52S02
Q8609561	2002AH52S03

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 06/26/2002 and was completed on 06/27/2002. All exposed filters were in good conditions. No sampler sn number was provided for filters Q8609562 and Q8609561 (CRL sample I.D number 2002AH52S02 and 2002AH52S03).

## **QUALITY CONTROL (QC):**

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

## **SAMPLE RESULTS:**

All the sample results are acceptable for use.

#### **ELECTRONIC DATA:**

No electronic data.

# CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Work Order

0206013, 0206014

Date of Analysis 06/26- 27/2002

Analyst:

ES

## **BALANCE VERIFICATION:**

DALANOL VEINITO	<u>// TTTOTT.</u>	
Sandard Weigh	nts Balanced weig	ht Differences
Actual (g)	Balanced (g)	(g)
		Limit +/-0.0005 g
		ALL PARTY OF THE P
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2.0000	2.0001	-0.0001
5.0000	5.0001	-0.0001

## QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Analysis	ANALYST	Exposed
Number	I.D Number	Date		weight (g)
Q8609569	2002AH53D01	06/13/02	Analyst 1	4.4459
Q8609569	2002AH53D01	06/13/02	Analyst 2	4.4457
Differences (Limit +/- !	5 mg)			0.0002

# CHESHIRE AIR MONITORING PROJECT PM10

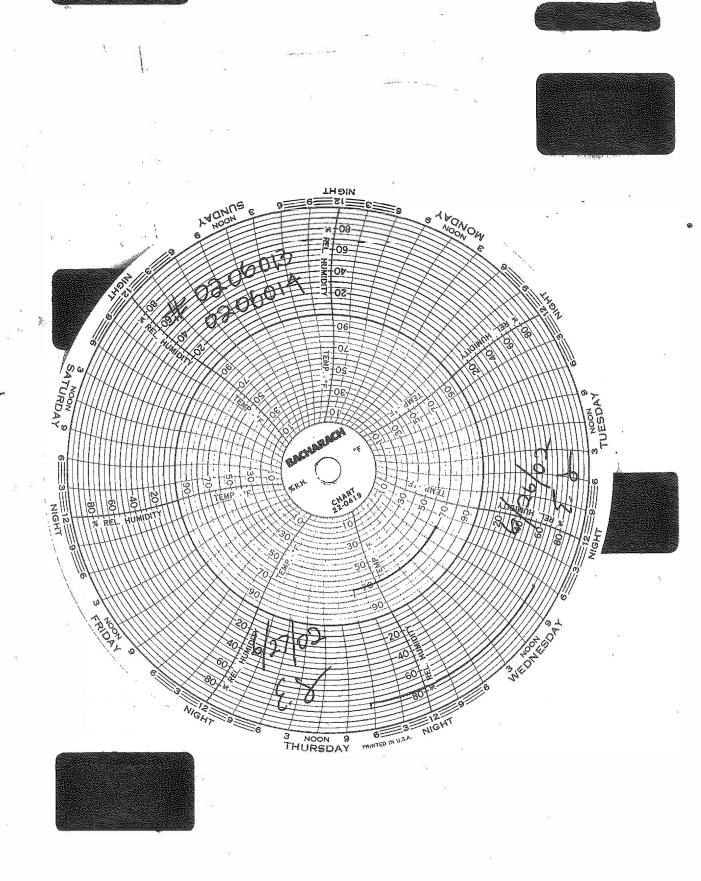
Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
											i
Work Orde	r Number 0206013										
Q8609570	2002AH52D01	06/07/02	Guiding Hands School	3013	16.15		0.00	4.3708	4.4152	0.0444	ERR
Q8609571	2002AH52S01	06/07/02	Guiding Hands School		16.25		0.00	4.4116	4.4586	0.0470	ERR
Q8609562	2002AH52S02	06/07/02	RVHS		16.20		0.00	4.4055	4.4541	0.0486	ERR
Q8609561	2002AH52S03	06/07/02	Addaville		16.05		0.00	4.4050	4.4643	0.0593	ERR

			& 11 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -		
IS FILTER	TARE	DUP	EXPOSED	EXPOSED	Comments
I.D.	wt	wt	wt	wit DOP	
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12 Q8609578	4.3518		1.3191		
Q8601578	4.4047	7 1-2 1-2 1-2	4.3696	443421	9-16
Q8609576	4.4045		4.4332	-1010	
- Q8609575	4.4086		4.4336 6.8	en elementa are arreer e escenti espe <sup>2</sup> pros	1
Q8609574	4.3944		4.4200		
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9869570	4.3708		4.4152		
0.8609569	4.3923		4.4459	4.4457	6/27/07
9869568	4. 3413	-			
Q8609567	4 3699				
Q8609566	4.3652	P	4.4232	- E H	
Q8609565	4.3893	>	4.4524	1 11/07	
Q8609564	4.3782	-	4.4429	4.4425R	nd 6/11/02
Q8609563 Q8609562	4.4055		4.4541	¥	6 t t = 1 t t t t t t t
Q8609561	4.4050		4.4643	NV Her	
Q8609560	4.3683	413687	4.4096	*	
08609559	4.3343	, , , ,	4.3767	43762	
.08609558	4.3507		4.3894		
Q8609557	4.3532		4.3750		
08609556	4.3494		4.3771	THE NOT	
0.8609555	4.3580		4-4011	ę <sup>2</sup>	

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FILTER	TARE	DUP	EXPOSED	EXPOSED	Comments
I.O.	wt	bot	wt	WEDEP	
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Q8609545	1			- 12 gas and as a comment with	
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Q86095A9		7.1	2		,
Q8609550		4.3863			
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Q8609553	The same are the same and the same are	4.4616		r = y ( ) ( s/mil ( n nimesém	11.00
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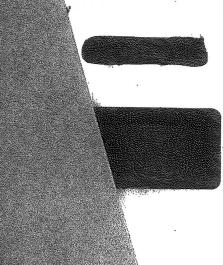


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2/1	Preservative None	Sample ID	Sampler	Date 6

US EPA Region 5 Field Sample

Parameters PM10

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Sampler Mile Musey

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Preservative None Sample ID 02AH52S01

AIR 2002008S

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Sampler Wile Mungy }
Date 6-7-02

Preservative None
Sample ID 02AH52S02

AIR 2002 CO85

5-340233-1 **Parameters** PM10

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AIR 2002 008 5 Preservative None MMDBD Sample ID 02AH52S03 Sampler Mike Musers

Parameters PM10

**US EPA Region 5 Field Sample** 

**ANADO ROTARIADO** 

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**COMMENLS:**